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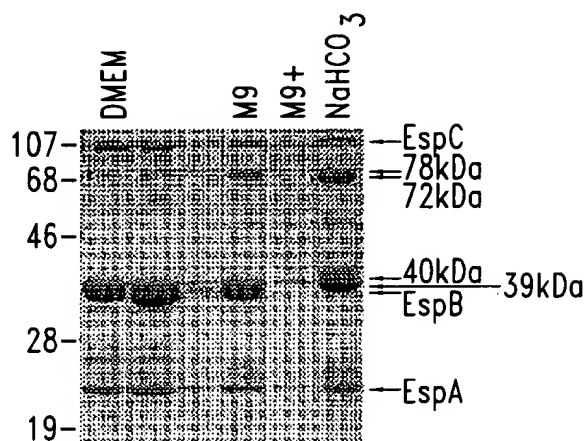


FIG. 1A

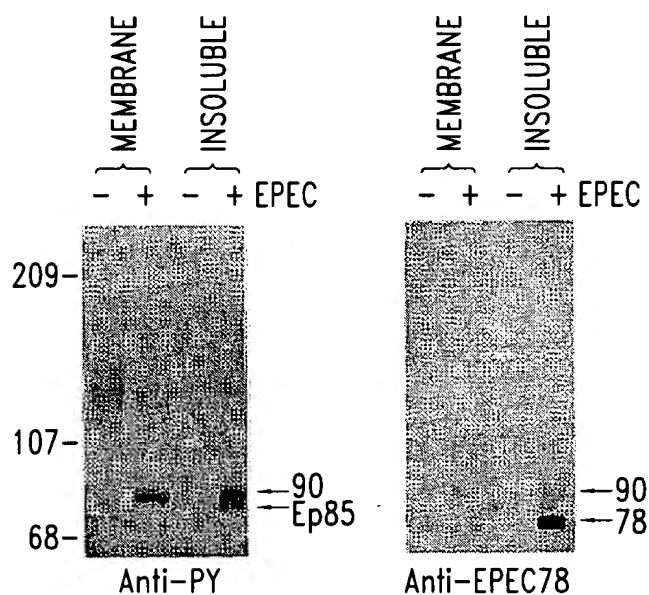


FIG. 1B



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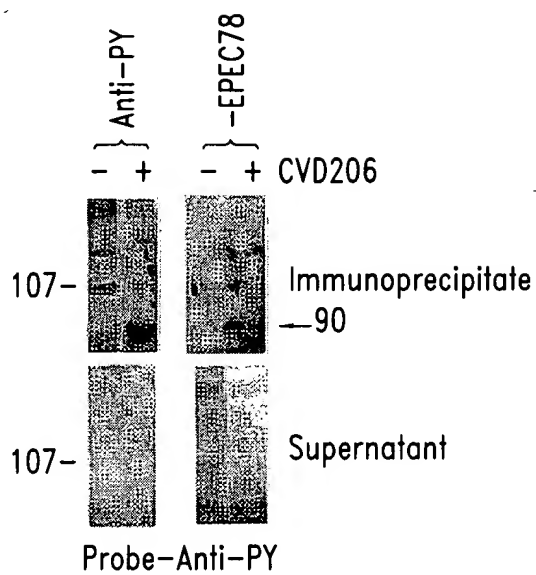


FIG. 2A

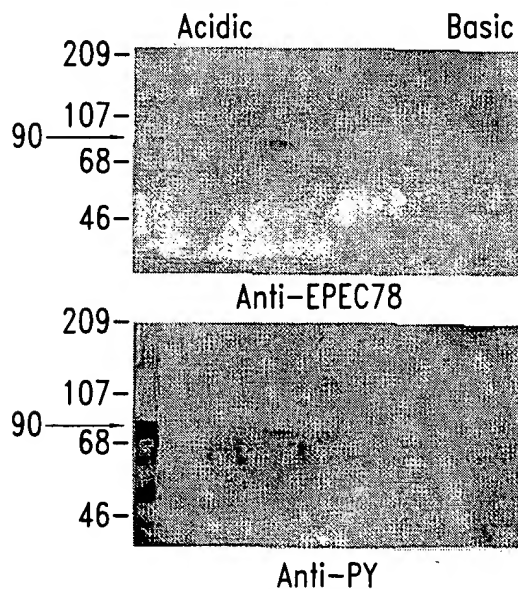


FIG. 2B



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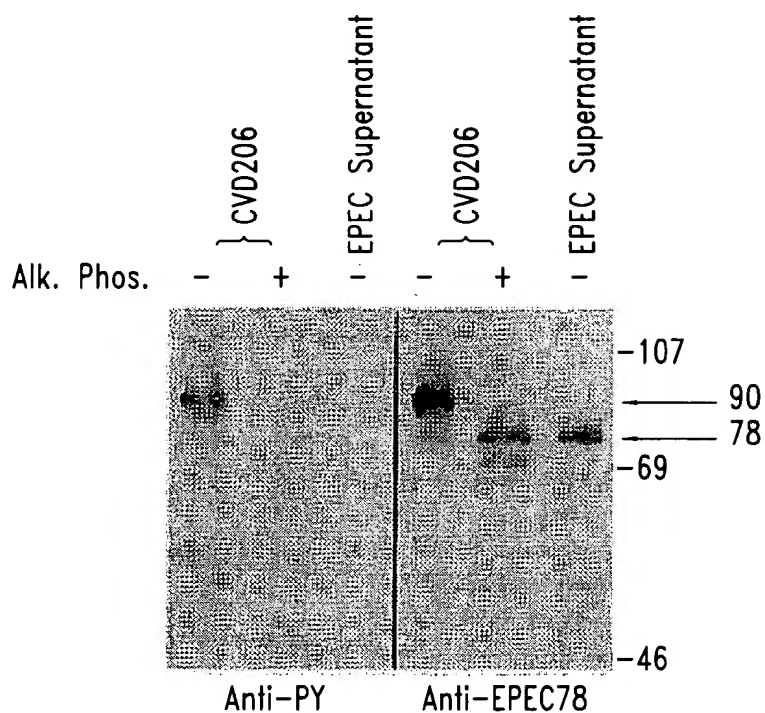


FIG. 3



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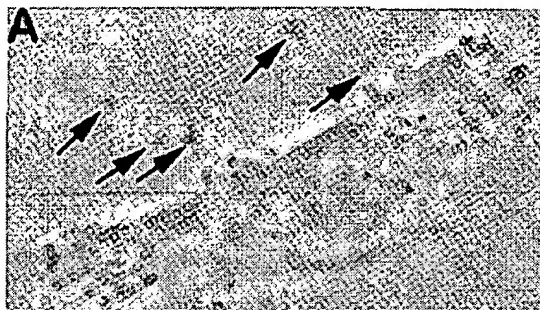


FIG. 4A

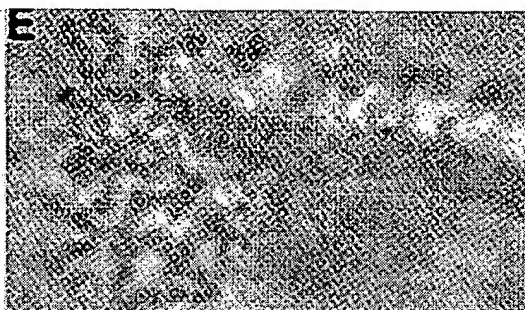


FIG. 4E



FIG. 4B



FIG. 4F



FIG. 4C



FIG. 4G

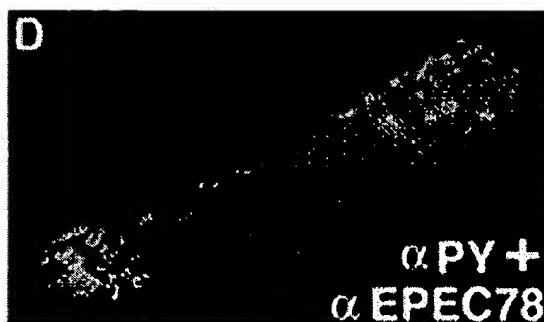


FIG. 4D

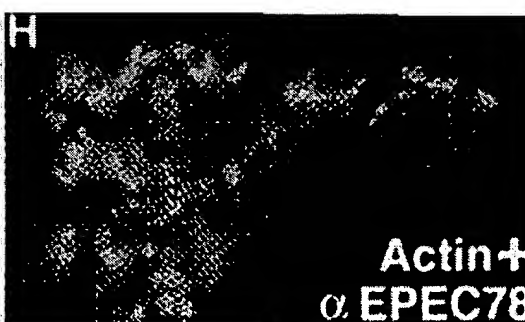


FIG. 4H

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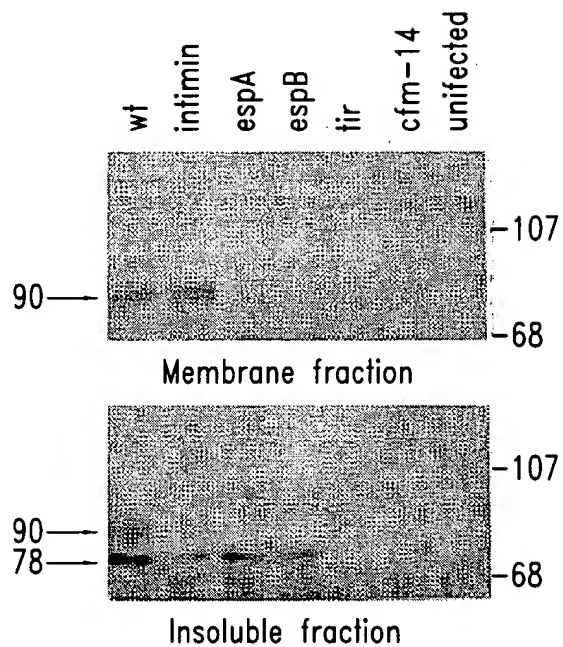


FIG. 5

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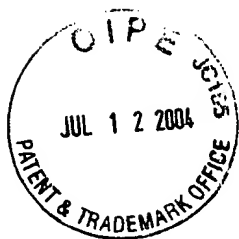
cggtgcataccgttacgtcatagtaataataaaggaacgtgtcaaatttctaataaaaag 60
tir →
gatatatgtATGCCTATTGGTAACCTTGGTAATAATGTAATGGCAATCATTTAATCCC 120
M P I G N L G N N V N G N H L I P
CCTGCGCGCCACTACCTTCACAAACAGACGGCGCGGCACGGGGAGGAAGTGGTCATCTA 180
P A P P L P S Q T D G A A R G G T G H L
ATTAGCTCTACAGGAGCATTAGGATCTCGTTCATTGTTTTCTCCCCTGAGAAATCTATG 240
I S S T G A L G S R S L F S P L R N S M
GCTGATTCTGTCGATTCCAGAGATATTCCAGGACTTCCTACAAACCATCGAGGCTTGCT 300
A D S V D S R D I P G L P T N P S R L A
GCAGCTACATCTGAGACATGCTTGCTTGGAGGATTGAAGTTCTCCATGATAAGGGGCCA 360
A A T S E T C L L G G F E V L H D K G P
CTTGATATTCTCAATACGCAAAATGGACCCTCTGCATTTCTGTTGAAGTGCAGGCAGAT 420
L D I L N T Q I G P S A F R V E V Q A D
GGTACTCATGCCCTATTGGAGAAAAAATGGTTTGGAGGTTAGCGTTACATTAAGTCCT 480
G T H A A I G E K N G L E V S V T L S P
CAAGATGGAGCAGCTTGAATCTATTGATACTGAGGGTAAAAACAGATTGTTTTTACC 540
Q E W S S L Q S I D T E G K N R F V F T
GGGGGACGTGGCGGTAGTGGGCATCCGATGGTCACTGTCGCATCAGATATCGCGGAAGCT 600
G G R G G S G H P M V T V A S D I A E A
CGTACGAAAATACTGGCCAAATTAGACCCAGACAATCATGGAGGACGTCAACCCAAGGAC 660
R T K I L A K L D P D N H G G R Q P K D
GTTGATACGCGTTCTGTTGGTGTGGCAGCGCTTCGGGAATAGATGATGGCGTTGTTAGC 720
V D T R S V G V G S A S G I D D G V V S
GAAACCCATACTTCAACAACAAATTCAGCGTTTCGCTCAGATCCTAAATTCGGGTTTCT 780
E T H T S T T N S S V R S D P K F W V S
GTCGGCGCAATTGCTGCTGGTTTAGCGGGACTGGCGGCAACTGGTATTGCACAGGCGTTG 840
V G A I A A G L A G L A A T G I A Q A L
GCTTTGACACCGGAACCGGATGATCCTACAACCACCGATCCTGATCAGGCCGCAATGCT 900
A L T P E P D D P T T T D P D Q A A N A
GCAGAAAGTGCAACAAAAGATCAGTTAACGCAAGAAGCATTCAAGAACCCTGAGAACCAG 960
A E S A T K D Q L T Q E A F K N P E N Q
AAAGTTAACATCGATGCGAACGGAAATGCTATTCCGTCTGGGGAATTAAGATGATATT 1020
K V N I D A N G N A I P S G E L K D D I
GTTGAGCAAATAGCACAACAGCTAAAGAGGCTGGTGAGGTGGCCAGACAGCAGGCTGTT 1080
V E Q I A Q Q A K E A G E V A R Q Q A V
GAAAGCAATGCACAGGCGCAGCAGCATATGAGGATCAGCATGCCAGACGTGAGGAGGAA 1140
E S N A Q A Q Q R Y E D Q H A R R Q E E
TTACAGCTTTCATCGGTATTGGTTACGGCCTCAGCAGTGCATTGATTGTTGCTGGGGGA 1200
L Q L S S G I G Y G L S S A L I V A G G

FIG. 6A



ATTGGTGCTGGTGTAACGACTGCGCTCCATAGACGAAATCAGCCGGCAGAACAGACAACT 1260
I G A G V T T A L H R R N Q P A E Q T T
 ACTACAACAACACATACGGTAGTGCAGCAACAGACCGGAGGGATACCCAGCACAAGGTG 1320
 T T T T H T V V Q Q Q T G G I P Q H K V
 GCACTGATGCCACAAGAGCGAAGACGCTTCTCTGATAGACGTGATTTCGACGGGGAGTGTT 1380
 A L M P Q E R R R F S D R R D S Q G S V
 GCATCGACACACTGGTCAGATTCTCTAGCGAAGTGGTTAATCCATATGCTGAAGTTGGG 1440
 A S T H W S D S S S E V V N P Y A E V G
 GGGGCTCGGAATAGTCTATCGGCTCATCAGCCAGAAGAGCATATTTATGATGAGGTCGCT 1500
 G A R N S L S A H Q P E E H I Y D E V A
 GCAGATCTGGTTATAGCGTTATTCAGAATTTTTCAGGGAGCGGCCAGTTACCGGAAGG 1560
 A D P G Y S V I Q N F S G S G P V T G R
 TTAATAGGAATCCAGGGCAAGGTATCAAAGTACTTATGCGCTTCTGGCAAACAGCGGC 1620
 L I G T P G Q G I Q S T Y A L L A N S G
 GGATTGCGTTTAGGTATGGGAGGATTAACGAGTGGTGGCGAGACGGCAGTAAGTTCTGTA 1680
 G L R L G M G G L T S G G E T A V S S V
 AATGCCGCACCAACGCCGGGACCAGTACGTTTCGTTTAAatatatctgtgagtatttagt 1740
 N A A P T P G P V R F V *
 tgagggtgggggtggggtggggggcgctttactagcggttaatgtttcagagaacaacggt 1800
orFU →
 gcagcatgggtaactcttgaacttctgttattataatcaattaagagaaattataATGTC 1860
M S
 ATCAAGATCTGAACTTTTATTAGATAGGTTTGGGAAAAAATTGGTGTGGATCTATTTTC 1920
 S R S E L L L D R F A E K I G V G S I S

FIG. 6B



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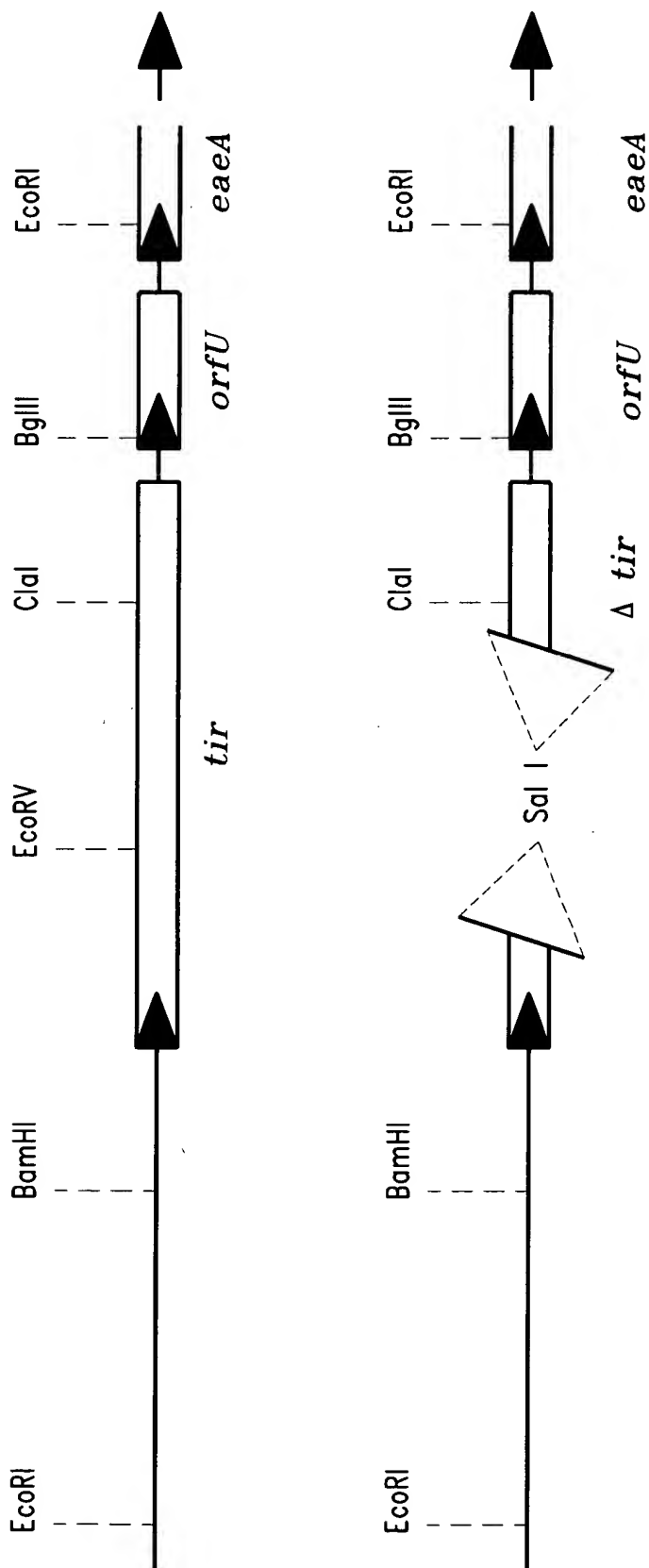


FIG. 6C

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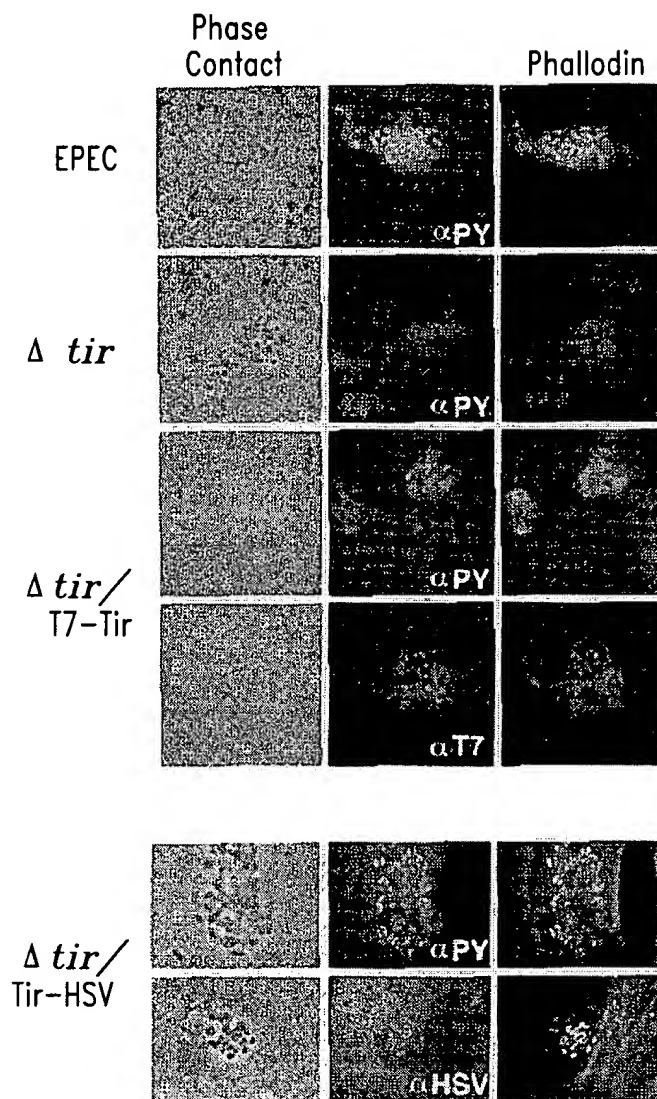


FIG. 7A

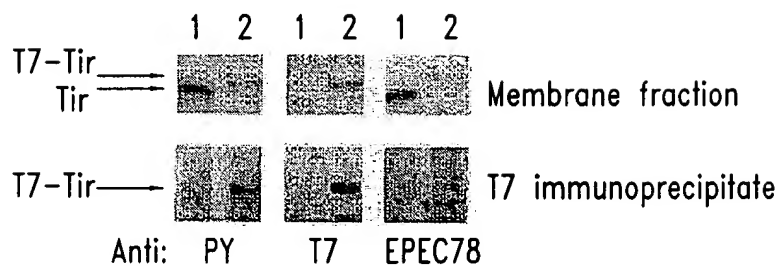


FIG. 7B



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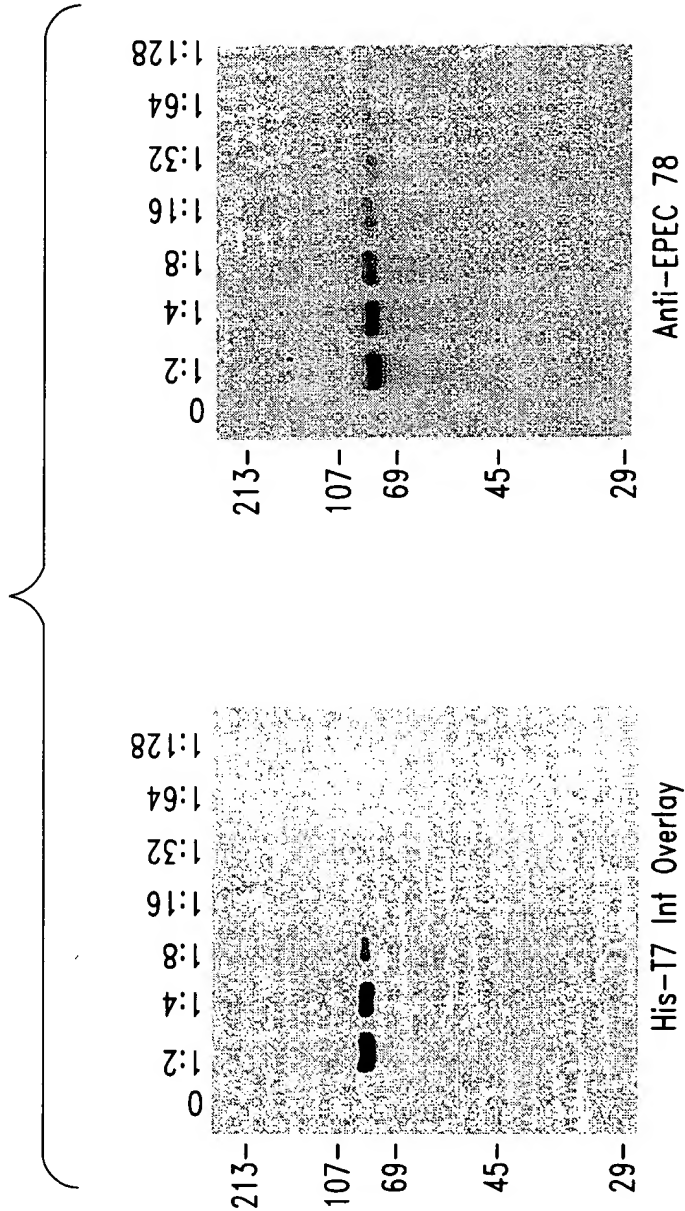


FIG. 8A



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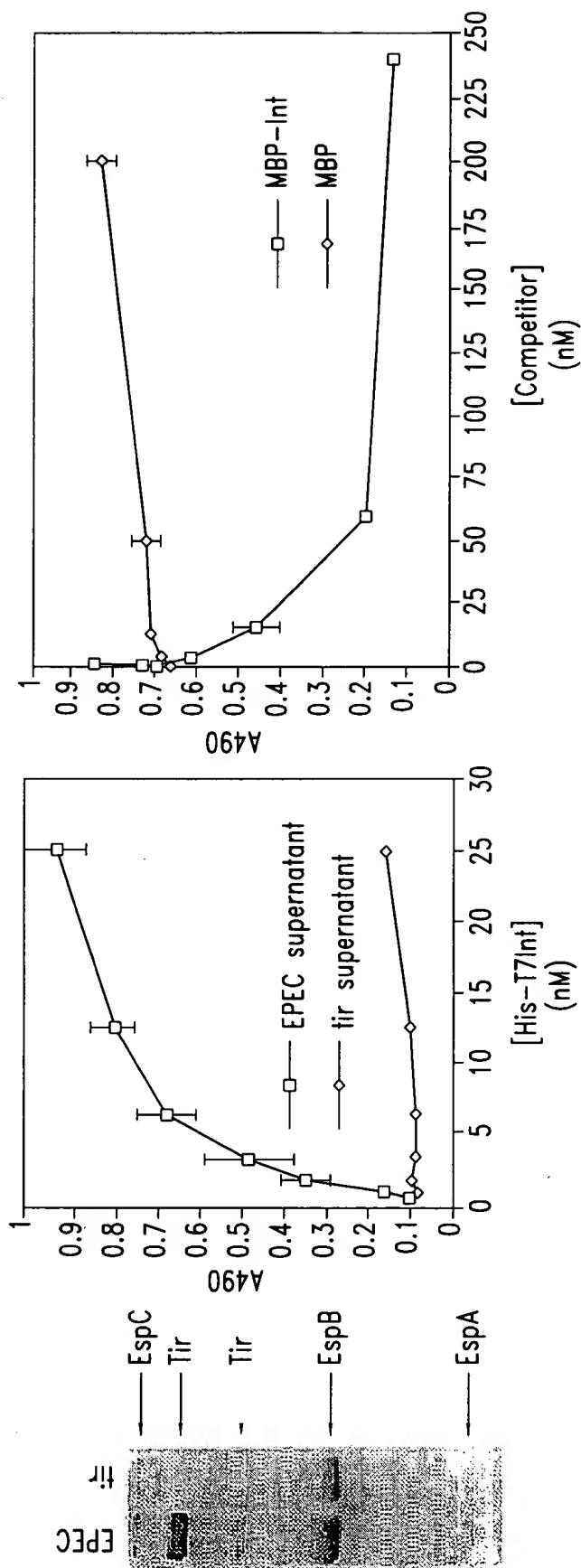


FIG. 8B



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EPEC	1	MPIGNLGNMNGNHLTPAPPLPSQTDGAARGGTGHLISSTG
EHEC	1	MPIGNLGNMNGNHLTPAPPLPSQTDGAG..GRGQLINSTG
RDEC-1	1
EPEC	43	ALGSRSLFSPLRNSMADSVDSRL..DIPGLPTNPSRLAAATSE
EHEC	41	PLGSRALFTPVRNSMADSGDVRASDVPLPVPNPMRLAAS..E
RDEC-1	1NSVADAADSRASDIPGLPTNPLRFAAS..E
EPEC	83	TCLLGGFEVLHDKGPLDILNTQTGPSAFRVEVQADGTHAATG
EHEC	81	ITLNDGFEVLHDKGPLDTLNQIGSSVFRVETQEDGKHIAVG
RDEC-1	29	VSLHGALEVLHDKGGLDTLNSAIGSSLFRVETRDDGSHVATG
EPEC	125	EKNGLEMSVTLSPQEMSSLSQSIDTEGKNRFVFTGGRGGSGHP
EHEC	123	QRNQVETSVVLSQDEYARLSIDPEGKDKFVFTGGRGGAGHA
RDEC-1	71	QKNGLETITVVLSEQEFSSLSQSIDPEGKNKFVFTGGRGGPGHA
EPEC	167	MVTVASDIAEARTKILAKLPDNDHGGROPKVDTRSVGVGSA
EHEC	165	MVTVASDITEARQRIELLEPKGTG..ESKGAGESKGVGELRE
RDEC-1	113	MVTVASDIAEARQRIIDKLEPK.....DTKETKEPGD
EPEC	209	SGIDDGVSETHSTITNSSVRSDPKFVMSVGAIAAGLAGLAA
EHEC	206	SNSGAENTTEITSTSTSSLRSDPKLWALGTVAITGLIGLAA
RDEC-1	145	PNSGEGKIIETHTSTSTSSLRADPKLWLSLGTIAAGLIGMAA
EPEC	251	TGIAQALALTEPDPTTTDPDQAANAESATKDQLTQEAQK
EHEC	248	TGIVQALALTEPDSPTTTDPDAAASATETATRDQLTKEAFQ
RDEC-1	187	TGIAQAVALTPEPDPTTTDPDAAANTAEAAAKDQLTKEAFQ
EPEC	293	NPENQKVNIDANGNAIPSGELKDDIVEQTAQAKAEAGEVARQ
EHEC	290	NPDNQKVNIDELGNAIPSGVLKDDVVANIEEQAKAAGEEAKQ
RDEC-1	229	NPDNQKVNIDENGNAIPSGELKDDVVAQIAEQAKAAGEQARQ
EPEC	335	QAVESNAQAQKRYEDQAKROEELQLSSGIGYGLSSALIVAG
EHEC	332	QATENNQAQKRYEDQAKROEELKVSSGAGYGLSGALILGG
RDEC-1	271	EATIESNSQAQKRYEDQAKROEELMSLSSGVGYGISGALILGG
EPEC	377	GIGAGVTITLHRRNQPAEQTTTTT.....HTVVOQTGG
EHEC	374	GIGAVTAALHRKNQPVETTTTTTTTTTTSARTVENKPANN
RDEC-1	313	GIGAGVTAALHRKNQPAEQTTTTT.....VVDNQPTNN

FIG. 9A



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EPEC	412	IPQHKVALMPQERRRFSRRDSOGSMVASTHWSOSSS.EVWNP
EHEC	416	TPAOGNVDTPGSEDTEMRSSMASTSSFTDSSIGTVQNP
RDEC-1	347	ASAOGNTDTSQPEESPASRRNSVSLASNGSDTSSTGTVENP
473		
EPEC	453	YAEVGGARNSLSAHQPEEHYDEVAADPG..YSVIQHFS.G
EHEC	458	YADVKTSLHDSQVPTSNSTSVQNMGNTDSVYSTIQHPPRD
RDEC-1	389	YADVGMPRNDSLARISEPTIYDEVAADPN..YSVIQHFS.G
474		
EPEC	491	SGPVTGRLIGTPGGIQTVALANSGLRLGMGLTSGGET
EHEC	500	TTDNGARLLGNPSAGIQTVALANSGLRLGMGLTGGNS
RDEC-1	427	NSPVTGRLVGTPGGIQTVALANSGLRLGMGLTGGGES
475		
EPEC	533	AVSSVNAAPTGPVRFV
EHEC	542	AVNTSNPPAPGSHRFV
RDEC-1	469	AVSTANAAPTGPVRFV

FIG. 9B